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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/07/2009

John S Mortimer Wood Philip Katz Clark & Mortimer 500 West Madison Street Suite 3800 Chicago, IL 60661-4592

EXAMINER					
WILSON, GREGORY A					
ART UNIT	PAPER NUMBER				

3749

DATE MAILED: 08/07/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,350	05/04/2007	Ichiro Ootomo	FUJ00682P00700US	8856

TITLE OF INVENTION: HEATING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

indicated unless correct maintenance fee notifica	ed below or directed oth	ierwise in I	Block 1, by (a	a) specifying a new c	Note	pondence address; a e: A certificate of n	and/or	(b) indicating a separ	correspondence address as ate "FEE ADDRESS" for domestic mailings of the
			pape	rs. Each additional	paper,	icate cannot be used fo such as an assignmen ling or transmission.	r any other accompanying t or formal drawing, must		
John S Mortimer Wood Philip Katz Clark & Mortimer 500 West Madison Street					I he	Certi reby certify that this	ificate Fee(s	of Mailing or Transm  Transmittal is being ficient postage for first	dission deposited with the United class mail in an envelope bove, or being facsimile te indicated below.
Suite 3800 Chicago, IL 606	61-4592								(Depositor's name)
- 6,					<u> </u>				(Signature)
	_								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/593,350 TITLE OF INVENTION	05/04/2007 I: HEATING APPARAT	US		lchiro Ootomo			FUJ	00682P00700US	8856
APPLN. TYPE	SMALL ENTITY	ISSUE	FEE DUE	PUBLICATION FEE D	OUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$3	1510	\$300		\$0		\$1810	11/09/2009
EXAM	IINER	ART	UNIT	CLASS-SUBCLASS	3				
WILSON, G	REGORY A	3	749	122-031100					
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OX</li> </ol>			form Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	oletion of th	is form is NO	T a substitute for filing (B) RESIDENCE: (C	g an : CITY	assignment. and STATE OR CC	DUNT	RY)	cument has been filed for
Please check the appropriate assignee category or categories (will not be 4a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			41	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	ns SMALL ENTITY state	is. See 37 C				-		CITY status. See 37 CFI	R 1.27(g)(2).
interest as shown by the	records of the United Sta	tes Patent a	nd Trademark	Office.	nan t	пс аррисані; а тедія	icicu a	morney of agent; of the	assignee of other party in
Authorized Signature						Date			
Typed or printed name						Registration No	)		
an application Confiden	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	ILS C 122	and 37 CFR	1.14 This collection i	is est	imated to take 12 m	inutes	to complete including	by the USPTO to process), gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/593,350	10/593,350 05/04/2007 Ichiro Ootomo		FUJ00682P00700US	8856
75	90 08/07/2009		EXAM	INER
John S Mortimer			WILSON, G	REGORY A
Wood Philip Katz (			ART UNIT	PAPER NUMBER
500 West Madison	Street		3749	
Suite 3800 Chicago, IL 60661	-4592		DATE MAILED; 08/07/200	9

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 223 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 223 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/593,350	OOTOMO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Gregory A. Wilson	3749	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ag or other appropriate communicatio IGHTS. This application is subject and MPEP 1308.	oplication. If not included in will be mailed in due course. <b>THIS</b>	
1. This communication is responsive to <u>amendment received</u>	<u>6/2/09</u> .		
2. 🔀 The allowed claim(s) is/are <u>8,9 and 21</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority unally All b) ☐ Some* c) ☐ None of the:</li> <li>Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ol>	e been received. e been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			
<ul> <li>5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet. Replacement sheet(s) should be labeled as such in the deponsion of the deponsion of</li></ul>	son's Patent Drawing Review (PTC). s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	Office action of ings in the front (not the back) of (d). must be submitted. Note the	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/2/09  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Gregory A. Wilson/ Primary Examiner, Art Unit 3749	5. Notice of Informal 6. Interview Summary Paper No./Mail Da 7. Examiner's Amend 8. Examiner's Statem 9. Other	y (PTO-413), ate	

Art Unit: 3749

# **DETAILED ACTION**

### Response to Arguments

Applicant's arguments as they pertain to the objection to the drawings have been fully considered and are persuasive, Figures 12 and 14 show a heating system with a burner (107) and a combustion gas passage (116) and a separate system having a burner (108) and a combustion gas passage (117). The objection of the drawings has been withdrawn.

# Allowable Subject Matter

Claims 8, 9 and 21 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (571)272-4882. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve McAllister can be reached on (571) 272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gregory A. Wilson/ Primary Examiner, Art Unit 3749 August 2, 2009